

Appl. No. 10/547,686
Amdt. Dated July 10, 2008
Reply to Office Action of April 10, 2008

Amendments to the Abstract

Please replace the Abstract with the following amended Abstract:

An apparatus and method for radially expanding a wellbore using an adaptive expansion system. In some embodiments, the apparatus includes a support member and an adaptive expansion device coupled thereto. The adaptive expansion device includes a support structure coupled to the support member, an expansion device segment, an adjustable spring element coupled between the support structure and the expansion device segment, an adjustable damping element coupled between the support structure and the expansion device segment, a sensor for sensing operating conditions, a controller operably coupled to the adjustable spring element, the adjustable damping element, and the sensor, and a user interface operably coupled to the controller for receiving user inputs. The controller is programmed to controllably adjust a spring rate of the adjustable spring element, and a damping rate of the damping element as a function of the operating conditions sensed by the sensor and the user inputs.